



www.fibox.com

CARDMASTER 3



**The all new, IP 65 rated,
Fibox Cardmaster 3 family of enclosures is
designed to provide the ultimate solution to
instrumentation packaging.**

NEW SIZE 25/22 NOW AVAILABLE



CARDMASTER³

SAFE AND SECURE ENCLOSURE SOLUTIONS

The all new, IP 65 rated, Fibox Cardmaster 3 family of enclosures is designed to provide the ultimate solution to instrumentation packaging. Ideal for measurement, monitoring and process control equipment, Cardmaster 3 looks good and performs well. Modern, durable materials are combined with an easy and reliable locking system and transparent door options, to house and protect instrumentation and electronics. PCB guides, knock-outs, a terminal wiring compartment and wall mounting options make installing and using a Cardmaster 3 easy.

- IP 65 rated
- Impact resistant polycarbonate or ABS
- Easy and reliable locking system
- Separate compartment for terminal wiring
- New transparent door
- Variety of wall mounting options
- Built in PCB card guides
- Wide range of models, sizes and accessories
- Safe design
- No sharp edges when opened
- Special knock-outs available with special mould
- RoHS compliant



ENCLOSURES WITHOUT MAIN COVER

Size mm	Code	Order symbol
166 x 160 x 80	7520104	PC 17/16-LC3
166 x 160 x 80	7580104	ABS 17/16-LC3
166 x 160 x 108	7520080	PC 17/16-C3
166 x 160 x 108	7580080	ABS 17/16-C3
213 x 185 x 90	7520081	PC 21/18-C3
213 x 185 x 90	7580081	ABS 21/18-C3
257 x 219 x 122	7520141	PC 25/22-C3
257 x 219 x 122	7580141	ABS 25/22-C3
314 x 260 x 95	7520031	PC 30/25-C3
314 x 260 x 95	7580031	ABS 30/25-C3
383 x 316 x 134	7520032	PC 36/31-C3
383 x 316 x 134	7580032	ABS 36/31-C3

Including: Enclosure base, terminal compartment cover, wall fastening cover plug and mounting screws.

ENCLOSURES WITH SMOKED GREY TRANSPARENT COVER



Size mm	Code	Order symbol
188 x 160 x 106	7525105	PC 17/16-L3*
188 x 160 x 106	7585105	ABS 17/16-L3
188 x 160 x 134	7525165	PC 17/16-3*
188 x 160 x 134	7585165	ABS 17/16-3
235 x 185 x 119	7525154	PC 21/18-3*
235 x 185 x 119	7585154	ABS 21/18-3
280 x 219 x 156	7525134	PC 25/22-3
280 x 219 x 156	7585134	ABS 25/22-3
320 x 260 x 129	7525019	PC 30/25-3
320 x 260 x 129	7585019	ABS 30/25-3
390 x 316 x 167	7525020	PC 36/31-3
390 x 316 x 167	7585020	ABS 36/31-3

Including: Enclosure base, transparent cover, terminal compartment cover, polyamide hinges, locking devices, wall fastening cover plug and mounting screws.

ENCLOSURES WITH POLYCARBONATE FRONT FRAME



Size mm	Code	Order symbol
166 x 160 x 89	7520204	PC 17/16-LFC3*
166 x 160 x 118	7520280	PC 17/16-FC3*
213 x 185 x 102	7520281	PC 21/18-FC3*
257 x 219 x 135	7520241	PC 25/22-FC3
314 x 260 x 110	7520231	PC 30/25-FC3

Including: Enclosure base, terminal compartment cover, closed PC frame front plate with cover screws and mounting screws.

TECHNICAL INFORMATION FOR CARDMASTER 3

PROPERTY	POLYCARBONATE (PC)	ABS	CONFORMITY TO STANDARDS (UL, CE, FI, Gost R)
Ingress Protection (EN 60529)	IP65	IP65	USA Enclosures for Electrical Equipment
Impact Resistance (EN 62262)	K 08/IK 07	IK 07	PC: UL Type 1 and 12K; UL 746 C-5V flame test (UL 50/508)*UL type 4x
Temperature Range (short term)	-40°...120°C; -40°...250°F	-40°...80°C; -40°...175°F	PC/ABS: NEMA 1, 6, 12 and 13
Temperature Range (continuous)	-40°...80°C; -40°...175°F	-40°...60°C; -40°...140°F	Canada Industrial Control Equipment
Electrical Insulation	Totally insulated	Totally insulated	Enclosures for Electrical Equipment/ULc
Light Grey Parts Colour	RAL 7035, Industry Grey	RAL 7035, Industry Grey	Empty enclosures for low-voltage switchgear and controlgear assemblies EN 62208:2003 (50298:1998)
Transparent Clear PC Cover	Smoked Grey	Smoked Grey	Europe Safety of Information Technology Equipment EN 60950
Latches (PA)	RAL 5023 Blue	RAL 5023 Blue	Australia Enclosures for switch gear and control gear AS 3132-1991
Gasket	PUR/EPDM	PUR/EPDM	GostR - Gost Russian certificate of conformity RoHS directive 2002/95/EC
Flammability rating	UL94V-0	UL94HB	
Glow Wire Test (IEC 695-2-1)	960°C	650°C	
Non-toxicity	Halogen Free	Halogen Free	
UV resistance (UL 508)	720 hours in "Weatherometer"		
Chemical Resistance ¹	Good	Good	

Data subject to change without notice. ¹ Consult separate raw material data for more detailed information

ACCESSORIES

Size mm	Code	Order symbol
MOUNTING PLATES		
136 x 133	7720071	MP 17/16
142 x 200	7720035	MP 21/18
225 x 175	7720140	MP 25/22
282 x 215	7720033	MP 30/25
345 x 258	7720036	MP 36/31

FRONT PLATES		
160 x 100	7720070	FP 17/16
206 x 118	7720026	FP 21/18
250 x 150	7720139	FP 25/22
289 x 189	7720027	FP 30/25
354 x 224	7720028	FP 36/31

FRONT PLATE FRAMES, IP 65 Screw fastening, polycarbonate		
166 x 106 x 16	7720102	FC PC 17/16
213 x 125 x 20	7720100	FC PC 21/18
257 x 157 x 30	7720111	FC PC 25/22
296 x 196 x 30	7720112	FC PC 30/25

COVERS		
187 x 106 x 30	7720123	CM 17/16-3T
233 x 125 x 31	7720122	CM 21/18-3T
279 x 157 x 36	7720134	CM 25/22-3T
318 x 196 x 36	7720094	CM 30/25-3T
386 x 233 x 37	7720113	CM 36/31-3T

HINGE AND LATCH SETS Large enclosures (30/25-36/31) without main cover can be changed to hinged versions by ordering cover and hinge&latch set.		
	7720417	SET 17/16-21/18-3
	7720424	SET 25/22-3
	7720418	SET 30/25-3
	7720419	SET 36/31-3

WALL MOUNTING LUG For 17/16-25/22		
	5510674	FP 10674

FASTENING LUG SET FOR DIN RAIL For 17/16-25/22		
	7720464	MB 20064 SET



CUSTOMISED ENCLOSURES



All Fibox enclosures can be customised to the customer's requirements by employing modern machinery available at all major Fibox customer service centres. CAD drawing files of standard enclosures are available at www.fibox.com. Factory technical assistance is also available to aid the engineer with creating the most cost-effective customisation that will meet his needs. Buying a customised enclosure from Fibox insures ongoing consistency and quality.

Local Fibox customisation service centre move the Fibox factory closer to the customer's location, which means improved and faster service, with lower costs.

SPECIAL COLOUR MOULDING



Where machining eases the mounting and other usability of the final product and shortens the production time at the FIBOX customer, colouring is a recommendable way of increasing brand identity. Even colouring some parts of the whole enclosure can give a nice touch.

Custom colour moulding is feasible for batches of 500 pieces and becomes truly cost effective for single moulding runs of 1000 units or more.

"Fibox has the ability to engineer enclosures specifically to our needs, this has contributed significantly to the success of the Pulsar Ultra range. The enclosures are attractive and now with the availability of the enhanced CM3, a new look can be given to our products, without losing the functionality."

Keith Flint, Sales & Marketing Director of Pulsar Process Measurement Ltd

"We simply supply a drawing and Fibox does the rest. The enclosures arrive ready for us to use, which saves us a phenomenal amount of assembly time. We see Fibox more as a partner company for our projects than just as a supplier. Another reason why Medem now uses Fibox enclosures exclusively is because the parent material is plastic. When housing electrical components and circuits insulating materials provide obvious benefits, alongside which they don't corrode."

Nigel Thornley, Managing Director of Medem Ltd

"Over the years I have personally used enclosures from all of the major suppliers but Fibox products are by far the best. The quality, value for money and sheer range means there is no longer any need to look elsewhere. We've never had a problem with Fibox."

Steve White, Operations Director of Stirling Technical Engineering Ltd

FIBOX

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FIBOX, a privately owned Finnish company, is one of the largest enclosure manufacturers in the world, and is the market leader in thermoplastic enclosures used for protecting electrical and electronic components operating in hostile environments. FIBOX enclosures are manufactured in modern factories located in Finland, Germany, China and Republic of Korea.



Sample photo

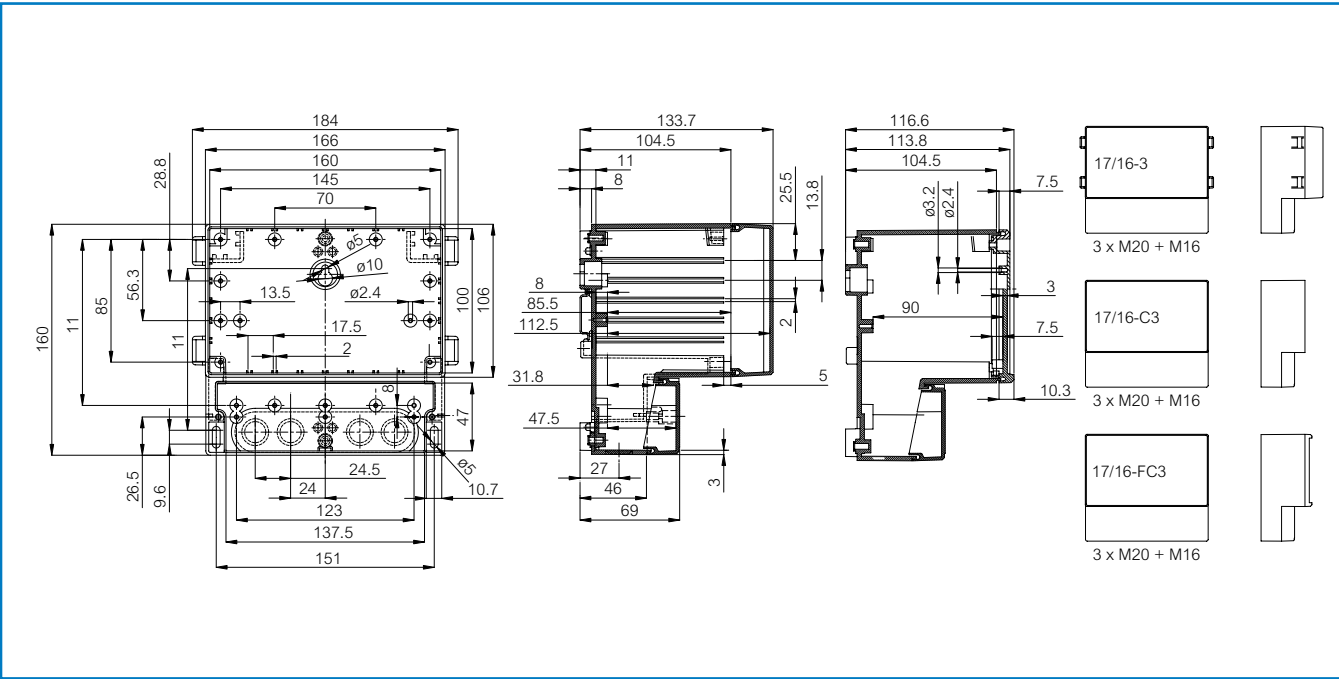
Order symbol: ABS 17/16-3
Product nbr: 7585165

EAN: 6418074056771

Description: Enclosure, ABS
Remarks: Smoked transparent cover

Including: Base, terminal compartment cover with EPDM gasket and screws for mounting plate/DIN-rail. -3 and -L3 versions: Smoked transparent cover with PUR gasket, hinges, locking devices; FC version: Closed PC frame front plate with PUR gasket and cover screws.

Dimensions:		L	W	H	Rating:
mm:		160	166	134	Ingress Protection (EN 60529): IP 65 Impact Resistance (EN 50102): IK 07 Electrical insulation: Totally insulated Halogen free (DIN/VDE 0472, Part 815): Yes Flammability Rating (UL 746 C 5): UL 94 HB Glow Wire Test (IEC 695-2-1) °C: 650 NEMA Class: NEMA 1, 3, 3R, 12, 13
inch:		6.3	6.5	5.3	
Materials:					
Material:		ABS			
Base colour:		RAL 7035			
Cover colour:		Smoked grey			
Gasket material:		EPDM and Polyurethane			
Temperatures:					Certificates:
Short term:		-40 ... 80 °C			Gost R
Continuous:		-40 ... 60 °C			
Short term:		-40 ... 175 °F			
Continuous:		-40 ... 140 °F			
Accessories:					
MP 17/16		Mounting plate			
FP 17/16		Front plate			
CM 17/16-3T		Cover			
SET 17/16-21/18-3		Set of hinges and latches			





Sample photo

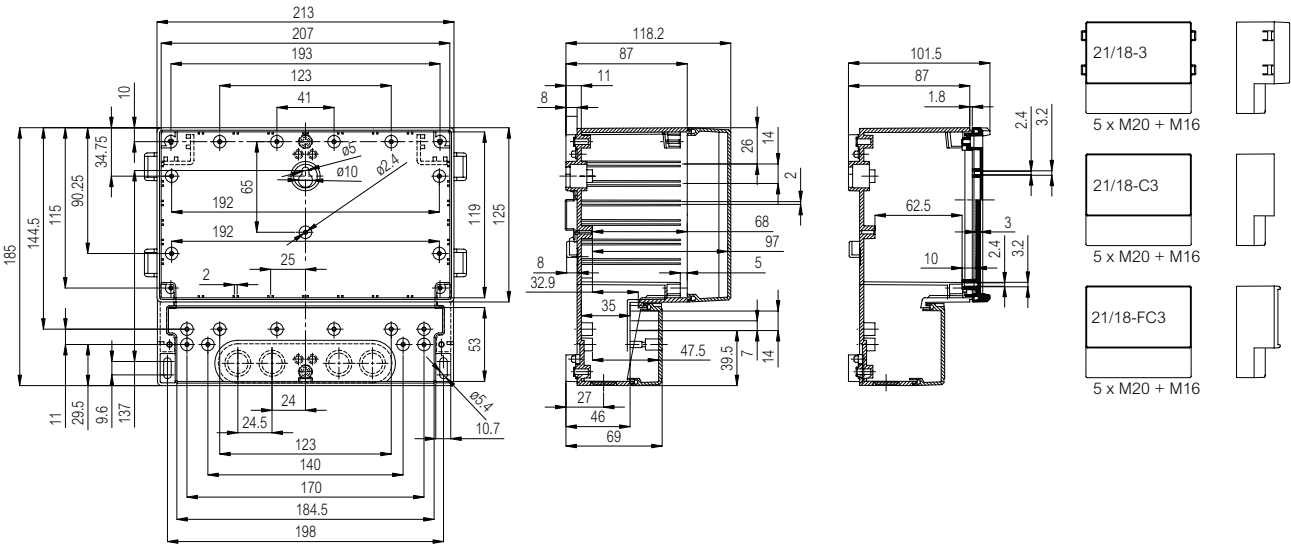
Order symbol: PC 21/18-3
Product nbr: 7525154

EAN: 6418074056733

Description: Enclosure, PC
Remarks: Smoked transparent cover

Including: Base, terminal compartment cover with EPDM gasket and screws for mounting plate/DIN-rail. -3 and -L3 versions: Smoked transparent cover with PUR gasket, hinges, locking devices; FC version: Closed PC frame front plate with PUR gasket and cover screws.

Dimensions:		L	W	H	Rating:
mm:		213	185	118	Ingress Protection (EN 60529): IP 65 Impact Resistance (EN 50102): IK 08/07 Electrical insulation: Totally insulated Halogen free (DIN/VDE 0472, Part 815): Yes UV resistance: UL 508 Flammability Rating (UL 746 C 5): UL 94 5V Glow Wire Test (IEC 695-2-1) °C: 960 NEMA Class: NEMA 1, 3, 3R, 4X, 12, 13
inch:		8.4	7.3	4.6	
Materials:					
Material:		PC			
Base colour:		RAL 7035			
Cover colour:		Smoked grey			
Gasket material:		EPDM and Polyurethane			
Temperatures:					Certificates:
Short term:		-40 ... 120 °C			Underwriters Laboratories Fimko Europe EN 50298 1998 UL Canada Gost R
Continuous:		-40 ... 80 °C			
Short term:		-40 ... 250 °F			
Continuous:		-40 ... 175 °F			
Accessories:					
MP 21/18		Mounting plate			
FP 21/18		Front plate			
CM 21/18-3T		Cover			
SET 17/16-21/18-3		Set of hinges and latches			





Sample photo

Order symbol: ABS 30/25-3
Product nbr: 7585019

EAN: 6418074056795

Description: Enclosure, ABS
Remarks: Smoked transparent cover

Including: Base, terminal compartment cover with EPDM gasket and screws for mounting plate/DIN-rail. -3 and -L3 versions: Smoked transparent cover with PUR gasket, hinges, locking devices; FC version: Closed PC frame front plate with PUR gasket and cover screws.

Dimensions:		L	W	H	Rating:
mm:		296	256	123	Ingress Protection (EN 60529): IP 65 Impact Resistance (EN 50102): IK 07 Electrical insulation: Totally insulated Halogen free (DIN/VDE 0472, Part 815): Yes Flammability Rating (UL 746 C 5): UL 94 HB Glow Wire Test (IEC 695-2-1) °C: 650 NEMA Class: NEMA 1, 3, 3R, 12, 13
inch:		11.7	10.1	4.8	
Materials:					
Material:		ABS			
Base colour:		RAL 7035			
Cover colour:		Smoked grey			
Gasket material:		EPDM and Polyurethane			
Temperatures:					Certificates:
Short term:		-40 ... 80 °C			Gost R
Continuous:		-40 ... 60 °C			
Short term:		-40 ... 175 °F			
Continuous:		-40 ... 140 °F			
Accessories:					
MP 30/25		Mounting plate			
FP 30/25		Front plate			
CM 30/25-3T		Cover			
SET 30/25-3		Set of hinges and latches			

